TOSHIBA

The power to open people's eyes

17WL46B

Owners Manual

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For your safety

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured. So, please read the points below for your own safety. They are of a general nature, intended to help you with all your electronic consumer products and some points may not apply to the goods you have just purchased.

Some "DOs" and "DON'Ts" for you

Air Circulation...

Leave at least 10cm clearance around the television to allow adequate ventilation. This will prevent the TV from overheating and consequential possible damage to the TV. Dusty places should also be avoided.

Heat Damage...

Damage may occur if you leave the TV in direct sunlight or near a heater. Avoid places subject to extremely high temperatures or humidity, or locations where the temperature is likely to fall below 5ºC (41ºF).

Mains Supply...

The mains supply required for this equipment is **230V AC, 50 Hz.** Never connect to a DC supply or any other power source. DO ensure that the TV is not standing on the mains lead. DO NOT cut off the mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of which will impair its performance. Mains fuse should be 13A.

Hot / Moderate Climate Conditions

This device is suitable for working in hot and moderate climate conditions.

IF IN DOUBT PLEASE CONSULT A COMPETENT ELECTRICIAN.

DO...

DO read the operating instructions before you attempt to use the equipment.

DO ensure that all electrical connections (including the mains plug, extension leads and inter-connections between pieces of equipment) are properly made and in accordance with the manufacturers' instructions.

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Switch off and withdraw the mains plug before making or changing connections.

DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

DO be careful with glass panels or doors on equipment.

DO NOT...

DON'T remove any fixed cover as this may expose dangerous voltages.

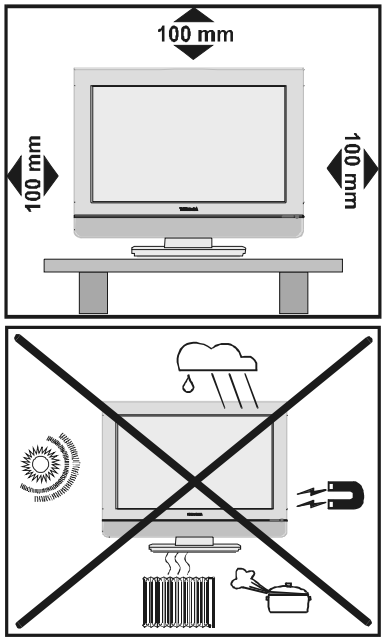
DON'T obstruct the ventilation openings of the equipment with items such as newspapers, table-cloths,
curtains etc. Overheating will cause damage and shorten the life of the equipment.

DON'T allow electrical equipment to be exposed to dripping or splashing or objects filled with liquids, such as vases, to be placed on the equipment.

DON'T place hot objects or naked flame sources, such as lighted candles or nightlights on, or close to the equipment. High temperatures can melt plastic and lead to fires.

DON'T use makeshift stands and NEVER fix legs with wood screws. To ensure complete safety, always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T listen to headphones at high volume, as such use can permanently damage your hearing.



DON'T leave equipment switched on when it is unattended, unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.

DON'T continue to operate the equipment if you are in any doubt about it working normally, or it is damaged in any way – switch off, withdraw the mains plug and consult your dealer.

DON'T put the empty batteries into garbage instead of recycle bin to reduce harmfull effects to the environment.

ABOVE ALL – NEVER let anyone, especially children, push anything into holes, slots or any other openings in the case – this could result in a fatal electric shock.

NEVER guess or take chances with electrical equipment of any kind – it is better to be safe than sorry.

To fully disconnect the TV, switch off the mains socket and remove the Power plug.

Safety Precautions for Power adapter

- Be careful! May become hot.
- For indoor and dry location use only.
- Risk of electric shock.
- Shock hazard, do not open.
- Keep all power adapters away from any other heat source.
- Always use power adapter(s) well-ventilated area.

*** Cold cathode fluoresant lamp in LCD PANEL contains a small amount of mercury, please follow local ordinates or regulations for disposal.*

"The LCD panel is very high technology product with about a million thin film transistors, giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product." Please note that certain light guns used with games consoles may not work on this product.

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Important Information

Please take note

EXCLUSION CLAUSE

Toshiba shall under no circumstances be liable for loss and/or damage to the product caused by:

- fire;
- earthquake;
- accidental damage;
- intentional misuse of the product;
- use of the product in improper conditions;
- loss and/or damage caused to the product whilst in the possession of a third party;
- any damage or loss caused as a result of the owner' s failure and/or neglect to follow the instructions set out in the owner's manual;
- any loss or damage caused directly as a result of misuse or malfunction of the product when used simultaneously with associated equipment;

Furthermore, under no circumstances shall Toshiba be liable for any consequential loss and/or damage including but not limited to the following, loss of profit, interruption of business, the loss of recorded data whether caused during normal operation or misuse of the product.

WARNING! NEVER LEAVE A STATIONARY IMAGE ON THE SCREEN

If stationary images generated by TELE-TEXT, CHANNEL IDENTIFICATION LOGOS, COMPUTER DISPLAYS, VIDEO GAMES, ON SCREEN MENUS, etc. are left on the TV screen for any length of time, they could become permanently ingrained.

If you use your television to display completely still images, or moving pictures which have a permanent still image superimposed e.g. broadcast network logos, it is always advisable to reduce BOTH the brightness and contrast settings.

Care and disposal

Cleaning the screen and cabinet...

Turn off the power, clean the screen and cabinet with a soft, dry cloth. We recommend that you do not use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.

Disposal...

When the set reaches the end of its useful life please dispose of it in accordance with Local Government Regulations or at a recycling centre.

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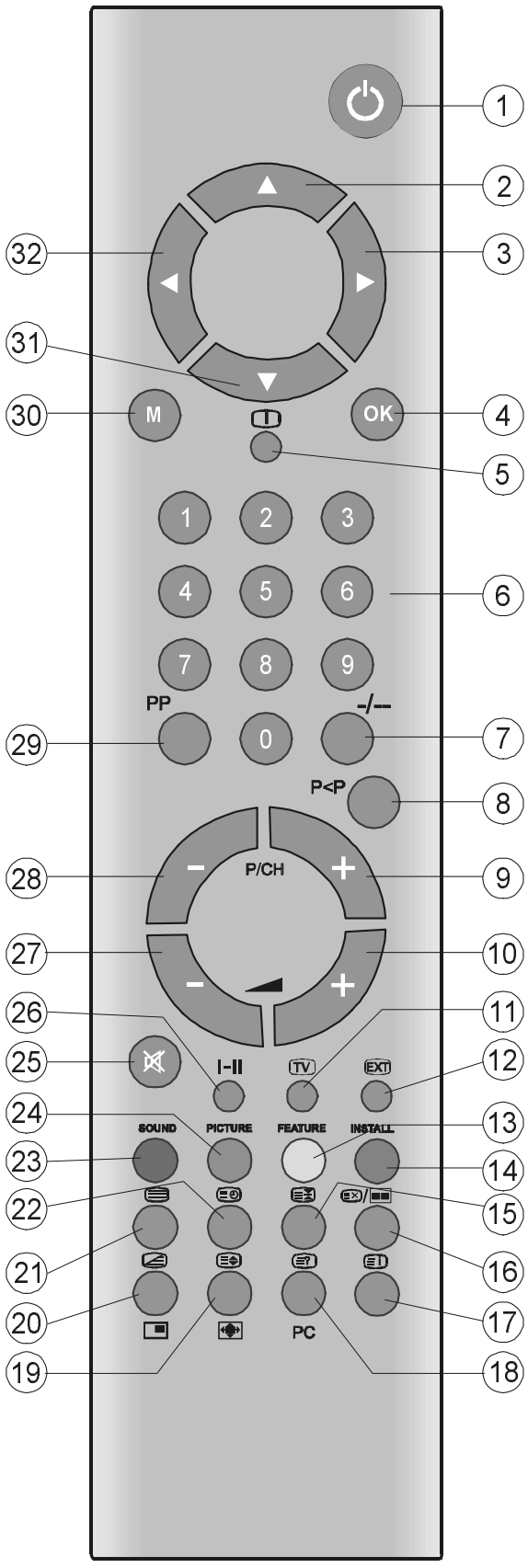
Remote Control Buttons

1. ⏻ = Stand By
2. △ = Cursor Up
3. ▷ = Cursor Right
4. **OK** = Okey (Store)
5. ⓘ = Info (Program Menu)
6. **0 - 9** = Direct Program
7. **-/--** = Double Digit
8. P<P =Previous Programme
9. **P/CH +** = Programme Up
10. **+** = Volume +
11. TV = TV / Quit Menu
12. EXT = External Source
    (AV-1, AV-2, AV-3, S-VIDEO, PC)
13. **Yellow (FEATURE)** = Feature Menu
14. **Blue (INSTALL)** = Installation Menu
15. = Hold
16. = Update, = PC and Picture
17. = Index Page
18. = Reveal, **PC** = Switch from TV to PC
19. = Expand, = Aspect ratio
20. = Mix, = PIP on / PIP off
21. = Teletext
22. = Time
23. **Red (SOUND) =** Sound Menu
24. **Green (PICTURE)** = Picture Menu
25. = Mute
26. **I-II** = Mono/Stereo - Dual I-II
27. **-** = Volume -
28. **- P/CH** = Programme Down
29. PP = Personal Preference
30. **M** = Menu
31. ▽ = Cursor Down
32. ◁ = Cursor Left



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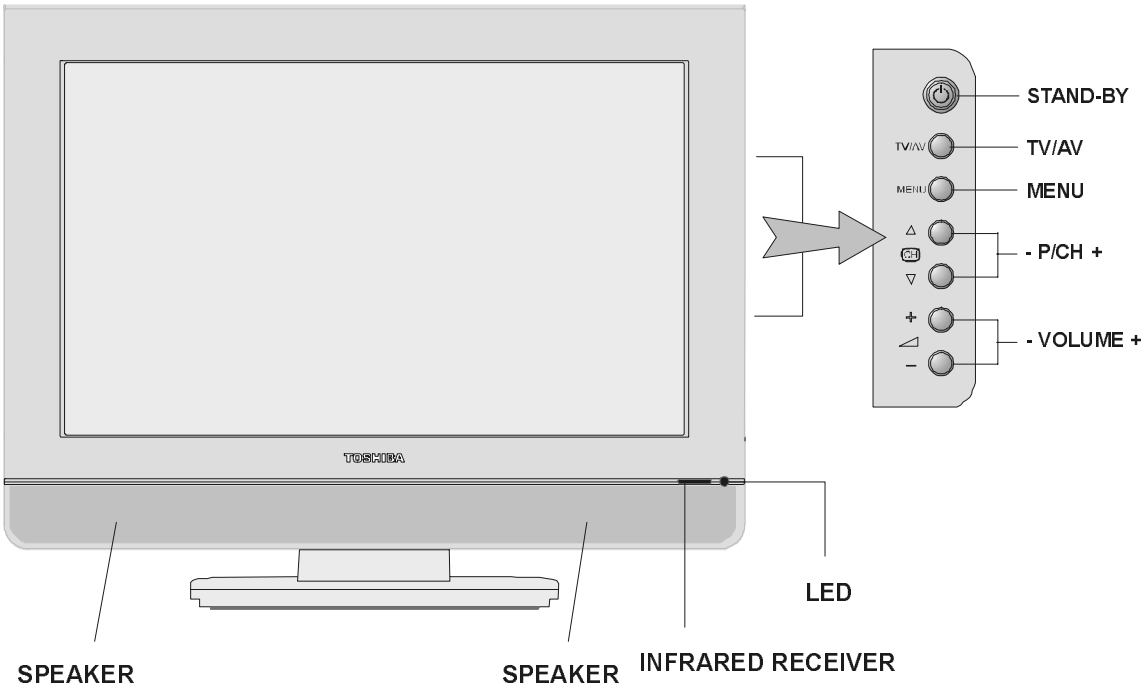
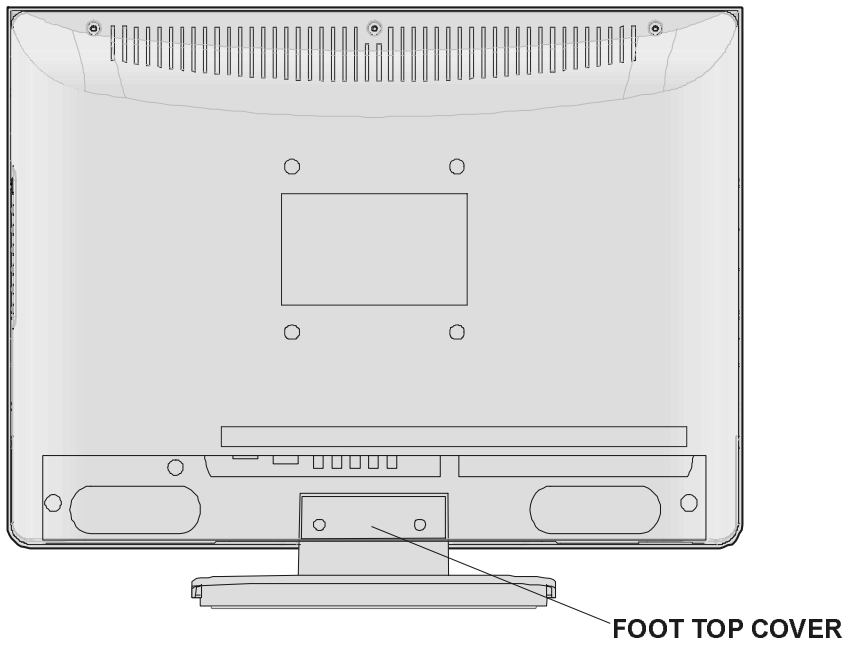
Control Panel Buttons





With certain combinations of connectors and leads the back cover may not be easily fitted. If the cover is left off, this in no way infringes safety requirements.

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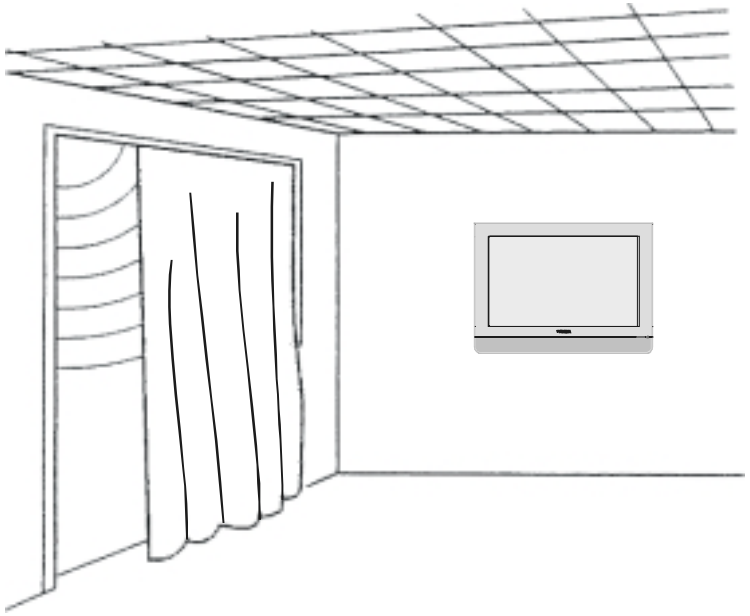
Where to install

Locate the TV away from direct sunlight and strong lights, soft, indirect lighting is recommended for comfortable viewing. Place on a sturdy platform, the mounting surface should be flat and steady, it should then be secured to the wall with a sturdy tie using the hook on the back of the TV, this will prevent it from falling over. Use curtains or blinds to prevent direct sunlight falling on the screen.

A floor and table top stand are available for this television, or and angled bracket which enables the TV to be wall-mounted.

The LCD display panels are manufactured using an extremely high level of precision technology, however sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a sign of a malfunction.

Make sure the TV is located in a position where it cannot be pushed or hit by objects, as pressure will break or damage the screen.



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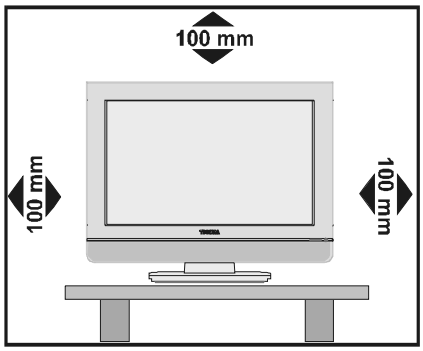
Preparation

Install Display on solid horizontal surface such as a table or desk.

For ventilation, leave a space of at least 10 cm free all around the set. To prevent any fault and unsafe situations, please do not place any objects on top of the set.

This apparatus can be used in tropical and/ or moderate climates.



Features

- It is a remote controlled colour television and PC monitor.
- 100 programmes from VHF, UHF bands or cable channels can be preset.
- It can tune cable channels.
- Controlling the TV is very easy by its menu driven system.
- It has 2 pieces of Euroconnector socket for external devices (such as video, video games, audio set, etc.)
- To use as a monitor, 15 Pin Mini D-Sub connector for computer.
- Optional stereo sound systems (German+Nicam) are available.
- Multilanguage OSD.
- Teletext (Fastext (7 pages), Toptext).
- It is possible to connect headphone.
- A.P.S. (Automatic programming system)
- All programmes can be named.
- Programme swapping between last watched two programmes.
- Forward or backward automatic tuning.
- Sleep timer.
- Child lock
- Auto, 4:3, 16:9, Cinema, Subtitle, Zoom and Panorama modes.
- Automatic sound mute when no transmission.
- When no valid signal is detected, after 5 minutes the TV switches itself automatically to stand-by mode.
- NTSC Playback.
- Universal power supply range is a standard feature on this model.
- TV Picture in PC (if PC input available).
- TV Picture and PC
- PLL (Channel Search)
- PC input (Support Up to 1280 x 768)

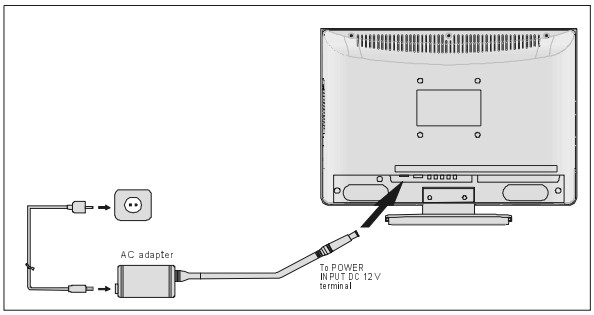
Panel Features

- High resolution (1280 x 768), 17”-inch TFT LCD display.
- High contrast ratio (400:1 Typical)
- Brightness: 450 cd/$m^{2.}$
- High-speed response time < 25 msec.
- Wide viewing angle (typical) 176° (horizontal) and 176° (vertical).
- 8-bit colour depth, display 16.7 M colours.

Before Switching on your TV

Power connection

Only use the adaptor supplied with this product.



IMPORTANT: The TV set is designed to operate on **12 V DC. For this, an adaptor is used which gives 12V DC voltage. Connect this adaptor to a system that supplies 230V AC, 50 Hz.**

- After unpacking, allow the TV set to reach the ambient room temperature before you connect the set to the mains.

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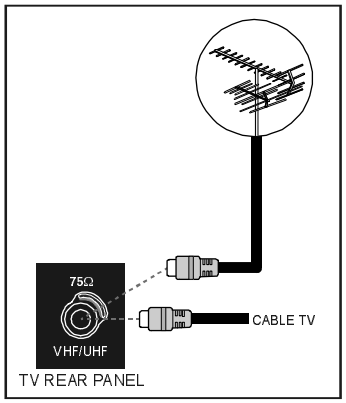
Connections to the RF input socket



• Connect the aerial or cable TV plug to the RF input socket located at the back of the TV and connect the cable plug coming out from the TV out socket located at the devices (VCR, DVB etc.) to this socket as well.

How to connect other devices

IMPORTANT: Switch off the TV before connecting any external device.

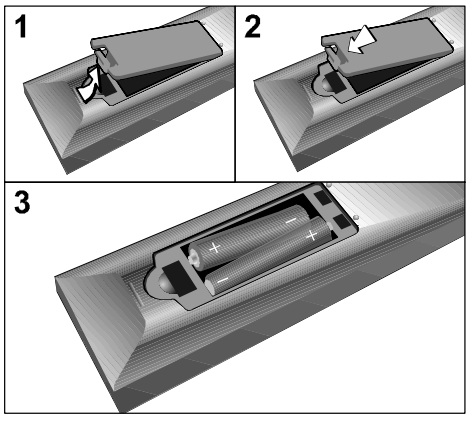
Sockets for external connections are at the back of the TV. For connection of other devices via Euroconnector refer to the manuals of the related devices.

Inserting batteries in the remote control handset

• Remove the battery cover located on the back of the handset by gently pulling upwards from the indicated part.

• Insert two AAA (R03)/UM4 or equivalent type of batteries inside.

• Replace the battery cover.



NOTE: *Remove the batteries from remote control handset when it is not to be used for a long period.Otherwise it can be damaged due to any leakage of battery.*

Old batteries must be disposed in a designated area. If performance of the remote control reduces, replace the batteries with the correct type. Do not combine a used, old battery or a new one or mixed battery types. Remove dead batteries immediately to prevent acid from leaking into the battery compartment.

Switching the TV ON/OFF

To switch the TV on

Your TV will switch on in two steps:

1- Connect the power supply cord to the system. Press the "⏻" button on the right side of the TV. Then the TV switches itself to stand-by mode and the led becomes sapphire blue located on the front of the TV.

2- To switch on the TV from stand-by mode either:

Press the "⏻" button on the remote control,

or,

Press a digit button on the remote control so that a programme number is selected,

or,

Press **"P/Ch"** button on the right side of the TV or press **"-P/CH"** or **"P/CH+"** buttons on the remote control, so that last switched off programme is selected.

By either ways the TV will switch on and diminishes the brightness of the led.

To switch the TV off

NOTE: To switch the TV off completely remove the mains plug from the socket.

• Press the "⏻" button on the remote control, so the TV will switch to stand-by mode and the LED will become sapphire blue.

or,

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Press the "⏻" button located on the right side of the TV, so the TV will switch off and the BLUE **LED** will turn off.

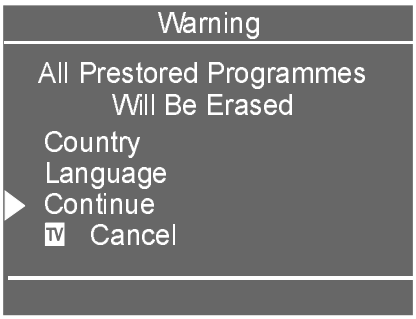
Operating the TV

You can operate your TV both using the remote control handset and onset buttons.

A.P.S. (Automatic Programming System)

"**All Prestored Programmes Will Be Erased**" message will be displayed when you turn your TV on for the first time. APS, searches and sorts all channels and stores them automatically on your TV, according to the transmission of programme systems in your area.

To cancel APS before starting, press "TV" button. First of all choose the "**Country**". This, will effect the sort process in APS. By pressing the "△" or "▽" button, come to the "**Language**" item and select the language in which the menus of the TV will appear. As soon as you change the language, the menu items will be displayed in the selected language. To select "**Continue**" use "△" or "▽" button and press "◁" or "▷" button.



After APS is finalized, a programme list will apper on the screen. In the programme list you will see the programme numbers and names assigned to the programmes.

If you press the "TV" button at any time while the A.P.S. is running, the A.P.S. will be ended. Then, the program list on the screen will show channels captured until this time.

If you do not accept the locations and / or the programme names of programmes, you can change them in Programme menu.

Operating with the buttons on the TV set

Volume setting and programme selection can be made by using the buttons at the control panel on the right side of the TV.

Volume Setting

• Press "−" button to decrease volume or "+" button to increase volume, so a volume level scale (slider) will be displayed at the middle of the bottom on the screen.

Programme Selecting

• Press "△ CH" button to select the next programme or "CH ▽" button to select the previous programme.

Entering Main Menu

• Press "**MENU**" button to enter Main menu. In the Main menu select submenu using "CH ▽" or "△ CH" button and enter the sub-menu using "−" or "+" button. To learn the usage of the menus, refer to the Menu System section.

Operating with Remote Control

The remote control handset of your TV is designed to control all the functions of the model you selected. The functions will be described in accordance with the menu system of your TV.

Functions of the menu system are described in Menu System section.

Volume Setting

Press "**+**" button to increase volume. Press "**-**" button to decrease volume. A volume level scale (slider) will be displayed at the middle of the bottom on the screen.

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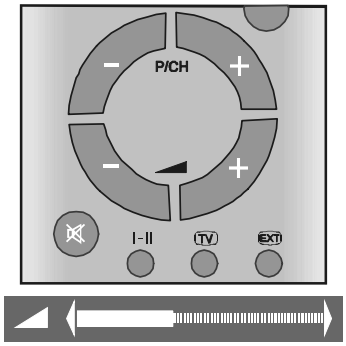


Programme Selecting

(Previous or next programme)

- Press "**-P/CH**" button to select the previous programme.
- Press "**P/CH+**" button to select the next programme.

Programme Selecting (direct access):

Press digit buttons on the remote control handset to select programmes between 0 and 9. TV will switch to the selected programme. To select programmes between 10 - 99, you must use the double digit button "- / - -".

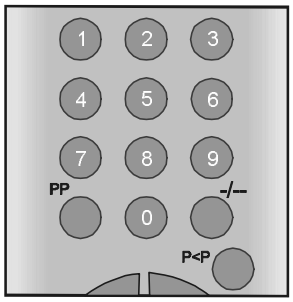
P - - this OSD is displayed at the left hand upper on the screen.

After then, press the digit buttons consecutively which programme you want to select (eg. for programme 27, first press 2 and then 7). When it is late to press any digit button this function will be ignored and the display will be erased. In the same way it must not be late to press any digit button after entering the first digit. The limit of the delay time is 3 seconds.

Press directly the programme number to reselect single digit programmes.

Programme Swapping

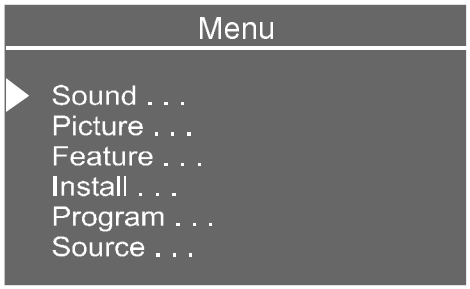
- Press "**P<P**" (programme swap) button to select the last selected programme. This button provides swapping between last two selected programmes. For example, select programme 8, then select programme 2. Now, if you press "**P<P**" button, programme 8 will be selected. If you press the same button again, programme 2 will be selected and so on.



Menu System

Your TV has been designed with a menu system to provide an easy manipulation of a multi-function system. The TV is controlled by choosing the commands, which are displayed on the screen.

Press the "**M**" button. The main menu will be displayed in the middle of the screen.



To select a sub-menu use "△" or "▽" button, and press "◁" or "▷" button or directly press "**OK**" button.

MAIN MENU

The menu system is described below.

The short way in order to enter the menus, press :

"M" Button,	**Main Menu.**
Red Button,	**Sound Menu.**
Green Button,	**Picture Menu.**
Yellow Button,	**Feature Menu.**
Blue Button,	**Install Menu.**
"i" Button,	**Programme Menu in TV mode or,** **Source Menu In AV mode**

Menu button has two functions; first is opening or closing the main menu, and the second is closing the sub-menu and then opening its parent menu.

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Menu does not disappear automatically if it is left on the screen.

Press "TV" key on the remote control unit to remove menu.

Sound Menu

To change sound settings

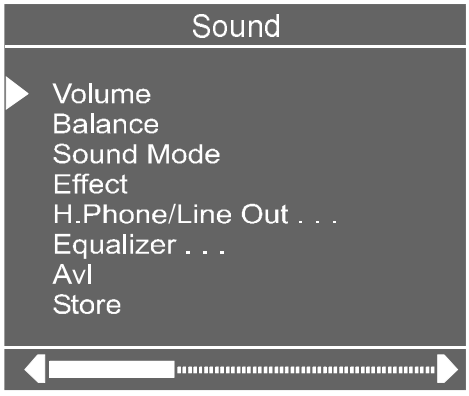
- Enter the Sound Menu directly by pressing the Red button or,
- As you enter the main menu, sound will be the first item. In the main menu, select **Sound** using "△" or "▽" button, then enter the sound menu pressing "◁" , "▷" or **"OK"** button.

Setting Volume:

As you enter the sound menu, Volume will be the first selected option.

- Press "▷" button to increase volume.
- Press "◁" button to decrease volume.

Or you can directly change the volume settings using "◢ +" (to increase) or "- ◢" (to decrease) button.

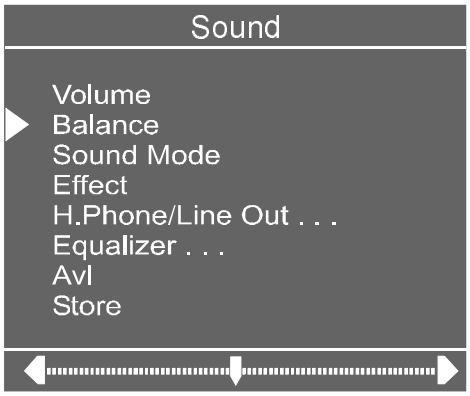


Setting Balance

It allows adjusting the distribution between the left and right speakers.

- Using "△" or "▽" button select Balance.
- Press "▷" button to change balance rightward.
- Press "◁" button to change balance leftward.

When balance control is in mid position, the cursor is displayed with one arrow.

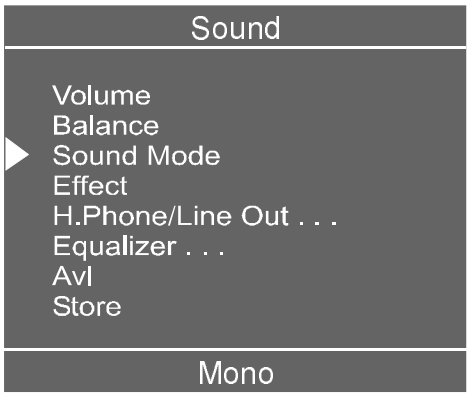


Selecting Mode

- Using "△" or "▽" button select Mode.
- Press "◁" or "▷" button to change Mode.

You can choose **Mono**, **Stereo** or **Dual (I-II)** mode, only if the selected channel supports that mode.

You can also change sound mode directly pressing "**I-II**" button on your remote control.



In case of bilingual broadcast (Dual Sound), you can select original or dubbed language using mode option.

Setting Effect

You can use this feature to switch the sound effect on and off. Pressing "◁" or "▷" button will turn on and off this feature. If the current sound system is **Mono** and the sound effect is set **ON**, then the sound will be heard as if it is **Stereo**. If the current sound system is **Stereo**, switching this effect on will make the sound deeper. Switching it off will make no change in **Mono** and **Stereo**.

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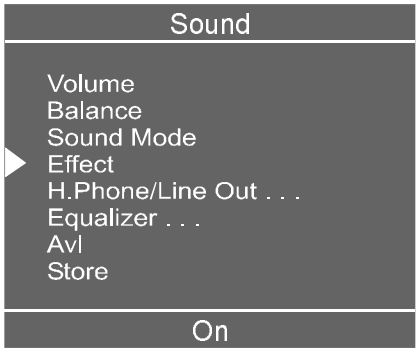
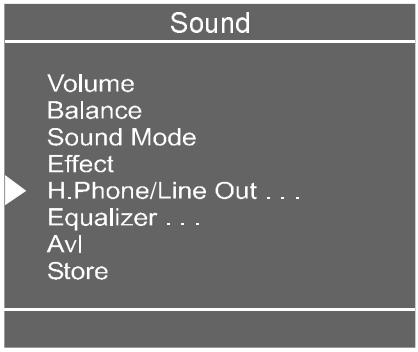


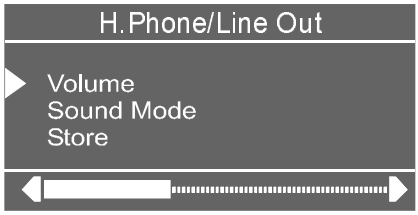
To Change H.Phone/Line Out Settings

- Using "△" or "▽" button select H.Phone/ Line Out.
- Press "◁" or "▷" button or directly press "**OK**" button on **H.Phone/Line Out**, to enter the H.Phone/Line Out menu. This is a sub-menu of Sound menu, and all options in this menu are working as the same in the Sound menu.



Setting H.Phone/Line Out Volume

- As you enter the H.Phone/Line Out sound menu, Volume will be the first selected option.
- Press "▷" button to increase volume.
- Press "◁" button to decrease volume.



Setting H.Phone/Line Out Sound Mode

- Using "△" or "▽" button select Sound Mode.

Pressing "◁" or "▷" button will change the current sound mode. (e.g.: If the current sound mode is stereo, it will be stereo or visa versa).

In case of bilingual broadcast, you can select original or dubbed language again using mode menu. So when somebody listens to the original language from the loudspeakers, somebody else can listen to the dubbed language from headphone.

To Store the Settings

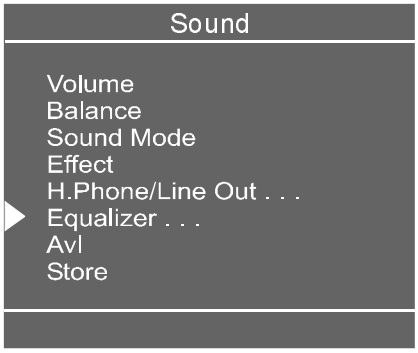
- Press **"OK"** button on the remote control to store the settings directly.

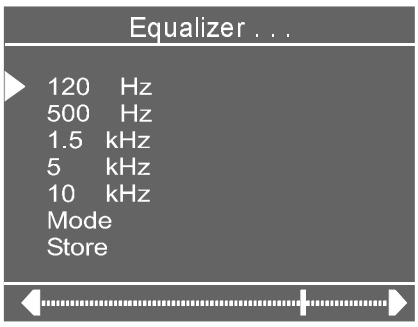
or,

- Using "△" or "▽" button select Store. Press "◁", "▷" or "OK" button to store current H.Phone/Line Out volume and sound mode. The stored values will be valid for all the programmes.

Equalizer

- Using "△" or "▽" button select Equalizer.
- Press "◁" or "▷" button or directly press "**OK**" button to enter Equalizer sub-menu.





In Mode item there are five predefined and one user defined options. These are User, Classic, Jazz, Rock, Pop and Flat. The predefined options can not be changed by the user. If you want to change one of the frequency values of the predefined options, the

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Mode must be switched to User option.

The 5 items below the Mode are available to adjust the sound settings in 5 frequency values: 120 Hz, 500 Hz, 1.5 kHz, 5 kHz and 10 kHz. To change the values of 5 frequency options, select one of the options by "△" or "▽" button, and then press "▷" to increase the value, or "◁" to decrease the value. In mid position, cursor is displayed with one arrow.

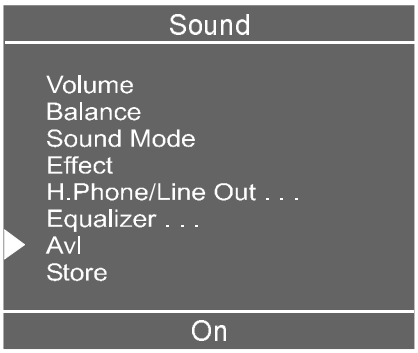
To store the Equalizer settings, press "◁" or "▷" button or directly press "**OK**" button on "**Store**" option.

During the store process all the items are stored, moreover, the User mode information would not be lost. In other words, when the user mode is selected again, after storing the Mode with one of the predefined options, the user defined frequency values would be set.

Setting AVL

- Using "△" or "▽" button select AVL.
- Pressing "◁" or "▷" button will turn on and off this feature.

Automatic Volume Limiting (Avl) function normalises sound to obtain fixed output level between programmes, having different sound levels.

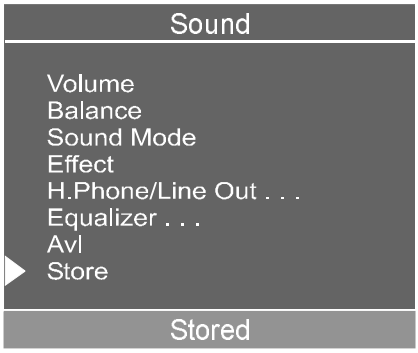


To Store the Settings

- When the cursor is on any item which has no sub-menu press **"OK"** button on the remote control to store the settings directly.

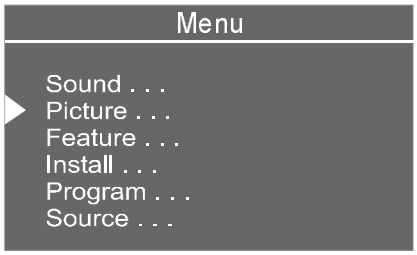
or,

- Press "◁", "▷" or "OK" button on "**Store**" option to store Sound menu settings.



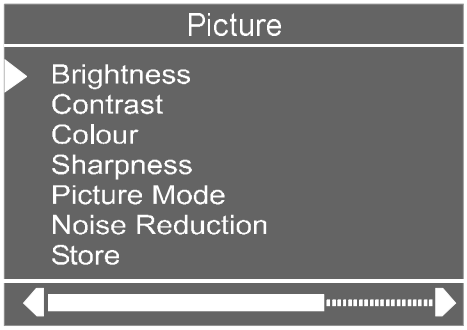
Picture Menu

- To enter the Picture menu directly, press the Green button, or
- Press "**M**" button, now you are in main menu. In the Main menu, select "**Picture**" using "△" or "▽" button, then enter the Picture menu pressing "◁" / "▷" or "**OK**" button.



Setting Brightness

- As you enter the picture menu, Brightness will be the first item.
- Press "▷" button to increase brightness.
- Press "◁" button to decrease brightness.



Setting Contrast

- Using "△" or "▽" button select Contrast.
- Press "▷" button to increase contrast level.
- Press "◁" button to decrease contrast level.

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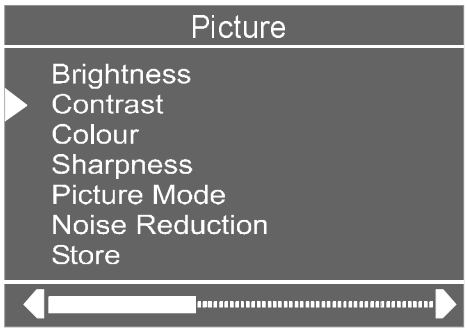
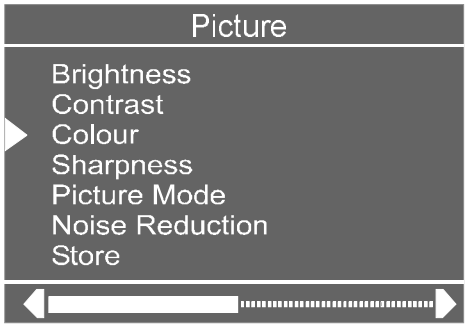


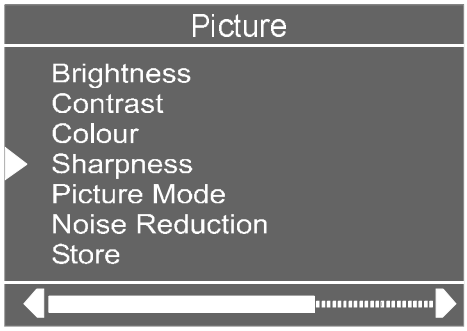
Setting Colour

- Using "△" or "▽" button select Colour.
- Press "▷" button to increase colour level.
- Press "◁" button to decrease colour level.



Setting Sharpness

- Using "△" or "▽" button select Sharpness.
- Press "▷" button to increase sharpness level.
- Press "◁" button to decrease sharpness level.



Setting Picture Mode:

- Using "△" or "▽" button select Picture Mode.
- Press "◁" or "▷" button to set Picture Mode. Picture Mode can be set to **Auto, 4:3, 16:9, Cinema, Subtitle, Zoom** or **Panorama**.

Setting Noise Reduction

- Using "△" or "▽" button select Noise Reduction.
- Press "◁" or "▷" button to select Noise Reduction level "**Off**" or "**Minimum**" or "**Medium**" or "**Maximum**" then select "store" and press "◁" or "▷" button to save your setting.

Note 1:

At low signal level, the changings on the Noise Reduction function are not effective when there is menu on the screen. If the menu is removed, the effect of this function is seen. At normal broadcasting, Noise Reduction changings are effective at once.

Note 2:

At moving pictures, while Noise Reduction is at maximum level, some picture distortions may occur. If Noise Reduction is set to medium or minimum, the picture will improve.

Setting Hue

(During Playback NTSC system, this will appear in AV mode only when NTSC video source is applied. Otherwise, HUE option is invisible in Picture menu.):

- Using "△" or "▽" button select Hue.
- Press "▷" button to increase hue level.
- Press "◁" button to decrease hue level.

Center value is indicated with one arrow.

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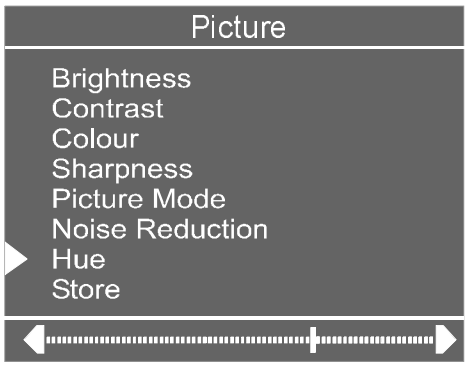
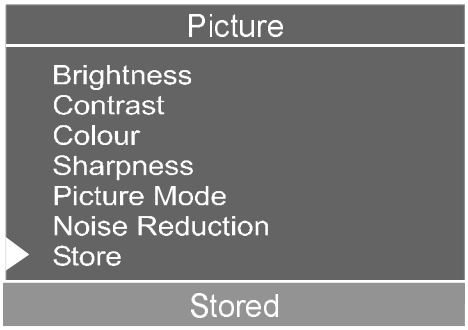


To Store the Settings

- When the cursor is on any item which has no sub-menu press **"OK"** button on the remote control to store the settings directly.

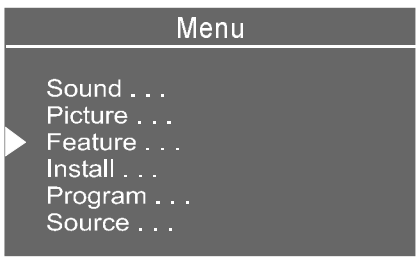
or,

- Press "◁", "▷" or "OK" button on **Store** option to store Picture menu settings.



Feature Menu

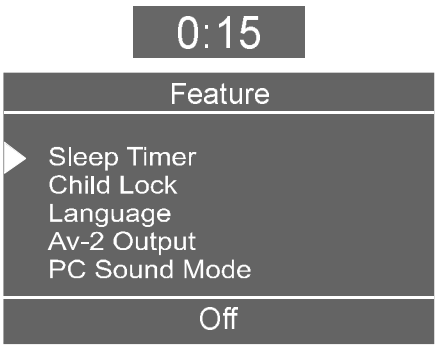
- To enter the Feature menu directly, press the Yellow button, or
- Press "**M**" button, now you are in main menu. In the main menu, select **Feature** using "△" or "▽" button. Then enter the Feature menu pressing "◁" / "▷" or "**OK**" button.



Sleep Timer

As you enter the Feature menu, **Sleep Timer** will be the first selected option. Use "◁" or "▷" button to change the Sleep Timer values between **Off, 0:15, 0:30, 0:45, 1:00, 1:15, 1:30, 1:45** and **2:00**.

If sleep timer is activated it is displayed with the TV status on the upper right of the screen.

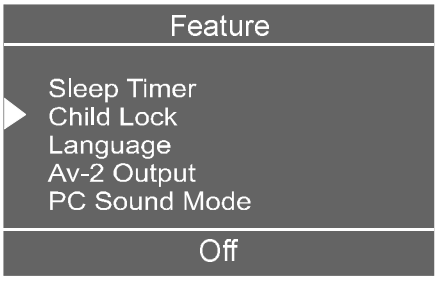


After the setting time of sleep timer ended, TV goes automatically to stand-by.

Child Lock

You can use this feature to prevent children turning on/off TV or changing programmes or adjustments etc. without remote control.

The **Child Lock** feature can be set **On** or **Off** by "◁" or "▷" button. When **Off** is selected, there will be no difference in the operation of your TV. When **On** is selected, the TV can only be controlled by the remote control handset. In this case the control panel buttons except "⏻" button on the right side of the TV will not work.



While Child Lock is On, pressing any of the control panel buttons (except power on/off button) causes the following warning menu to appear on the screen.

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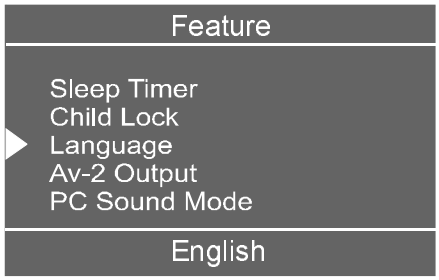
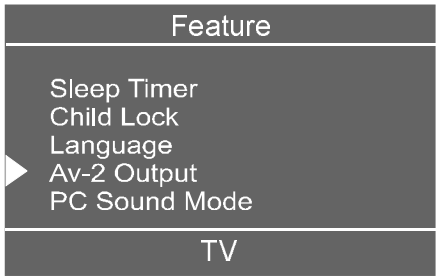
Selecting Menu Language

Menu language can be chosen by pressing "◁" or "▷" button on **Language** item.



Av-2 Output

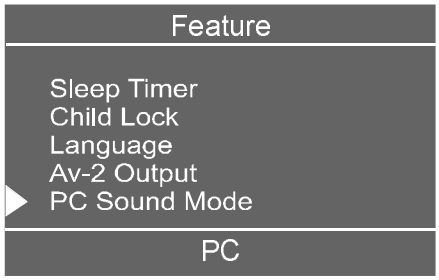
From Av-2 Output; TV, AV-1 or AV-3 can be given. TV, AV-1 or AV-3 can be chosen by pressing "◁" or "▷" button on "**Av-2 Output**".



PC Sound Mode

PC sound can be chosen by pressing "◁" or "▷" button on **PC Sound Mode** item.

You can select sound that comes from TV, AV-1, AV-2, AV-3 or PC to hear in PC mode.

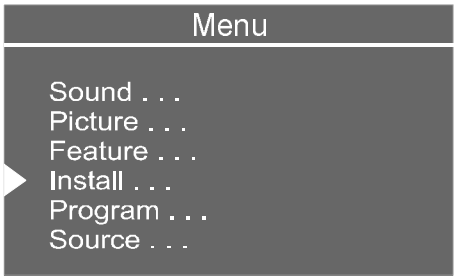


To Store Settings

In Feature menu all settings are stored automatically.

Installation Menu

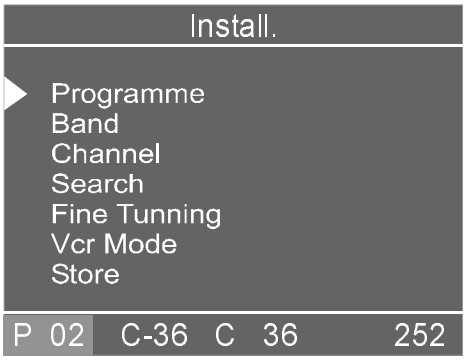
- To enter the Installation menu directly, press the Blue button, or
- Press "**M**" button, now you are in main menu. In the main menu, select "**Install.**" using "△" or "▽" button. Then enter the Install menu pressing "◁" / "▷" or "**OK**" button.



When any item is selected with "△" or "▽" button in the install menu, the selected item will be highlighted on the bottom bar. Changes by pressing "◁" or "▷" button will be result only at highlighted item on the bottom bar.

Selecting Programme

To select programme number, you can use "◁" or "▷" button, Digit Buttons or The Double Digit button with digit buttons.



Selecting Band

Band, can be chosen either,

• "C" or "S" by "◁" or "▷" button.

Selecting Channel

Channel can be changed by "◁" or "▷" button, by Digit Buttons or by the Double Digit button with digit buttons.

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For band C,

01 - 17, 21 - 73,

For band S,

01 - 41.

Selecting Search

To start the search process, press "▷" button for forward search or "◁" button for backward search. If a signal is found or reaches to end of the band after searching, press "◁" or "▷" buttons to continue search process. To stop the search process when you want, press "◁" or "▷" buttons again.

Selecting Fine Tuning

You can use the Fine Tuning process for fine adjustment (after coarse adjustment), if you are not happy about the image on the screen.

Use "◁" or "▷" button on **Fine Tuning** item, until getting the best image on the screen.

Normally the Fine Tuning cursor is placed next to the left side on the slider and this is indicated with one arrow.

Setting VCR (Video Cassette Recorder) Mode

- This item can be seen in **TV,** AV-1, AV-2, AV-3, S-VIDEO modes.
- If you want to watch a **VCR** source from one of these modes, then it will be better to set **VCR** mode "on". For this, while the cursor is on this item press the "◁" or "▷" buttons to set it "On".
- If you want to watch a **DVD** , then you must set this item "off"; because **DVD** is not a source like a **VCR** and to see the picture better, you must set the **VCR** mode "Off".

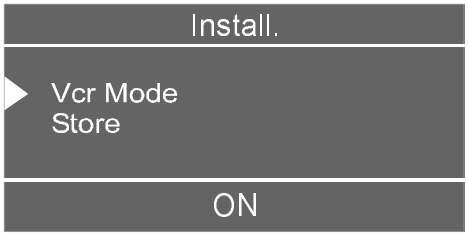
To Store Settings

- Press **"OK"** button on the remote control to store the settings directly.

or,

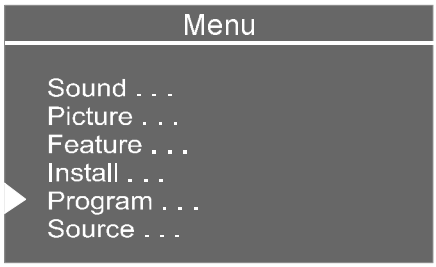
- Press "◁", "▷" or "OK" button on **Store** option to store Install menu settings.

Installation menu in AV mode is as follows.



Programme Menu

- To enter Programme menu directly, press the "i" button in TV mode, or
- Press "**M**" button, now you are in main menu. In the main menu, select "**Program.**" using "△" or "▽" button. Then enter the Programme menu, press "◁" / "▷" or "**OK**" button.



Moving cursor to four direction you can reach 20 programmes in the same page. By scrolling the pages up or down by pressing the navigation buttons you can select all the programmes in TV mode (except the AV mode).

By cursor action, programme selection is done automatically. In order to select programme is also possible by using digit or double-digit button. In this way programme selection gets also automatically. The TV Status is changed by the programme selection too. When using double-digit button in order to select a programme, the Programme Number in TV Status OSD is displayed in "**P --**" form, and by pressing digit buttons they are displayed in it.

Programme Number is between 00 and 99. Programme Name has a name string with 4 characters. After autostore process the Programme Names are set to:

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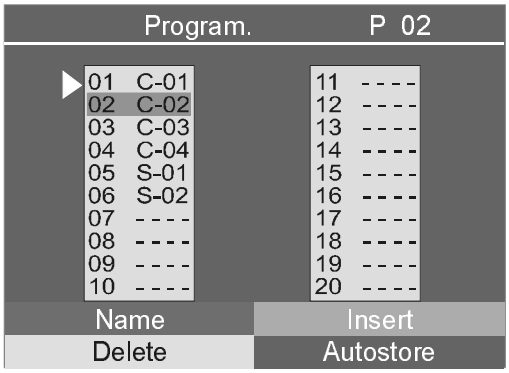
• Channel search **"C-01"** or **"S-01"** (band and channel number) or name of the tuned channel if defined.



At the bottom of the menu there is a programme sort functions section. Each function is activated by color button (seen above). **Name** allows changing the programme name. By **Delete** you can delete programmes that you decided. **Insert** section is for inserting programmes into another programme spaces. By selecting **Autostore** section, Autostore menu will be available.

Name:

To change the name of a decided programme, that programme is selected and pressed to the **Red** button (**Name**). The first letter begins to blink on the selected name. To change that letter "△" or "▽" button can be used, and to select the other letters, "◁" or "▷" button can be used. If the cursor is at the last letter of the Programme Name, pressing "▷" button moves the cursor at the beginning. On the contrary, if the cursor is at the beginning of the Programme Name, pressing "◁" button moves the cursor at the end.

After changing the name by pressing the **Red** button (**Store**) it is stored. After activating the name process the "**Insert**", "**Delete**" and "**Autostore**" processes will be inactive and "**Cancel**" option will be valid. This option cancels the name process, if the new name do not want to be stored. To cancel option is activated by pressing **Blue** button.

Insert:

When it is pressed to **Green** button (**Insert**), "**Name**", "**Autostore**" and "**Delete**" functions are erased, the selected programme (A) is displayed with an arrow. From now on, the automatic selection is canceled. With navigation buttons, the decided programme space (B) can be selected and by pressing the green button again inserting is occurred to that space (B).

Press **Blue** button to activate "**Cancel**" function of "**Insert**" process.

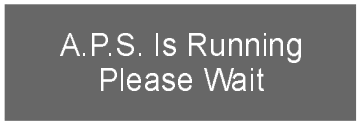
Delete:

For "**Delete**" process it is pressed to yellow button, ("**Name**", "**Insert**" and "**Autostore**" functions are inactive). Pressing yellow button again erases the selected programme from the programme list, and the programmes below shift one up. Pressing **Blue** button cancels the activated "**Delete**" process.

Autostore:

To enter Autostore menu, press to the blue button. To learn the features of this function see "**Autostore**" below.

Autostore, searches and stores all channels automatically on your TV, according to the transmission of programme systems in your area.



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First of all choose the "**Country**" by using "◁" or "▷" button.

To cancel **Autostore** before starting, press "TV" button. To select "**Continue**" use "△" or "▽" button and press "◁" or "▷" button.

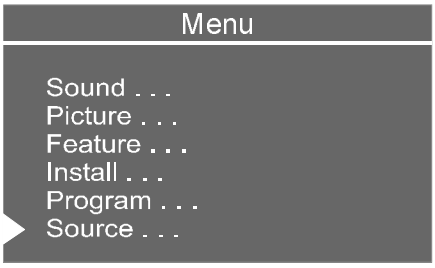
After Autostore is finalized, a programme list will appear on the screen. In the programme list you will see the programme numbers and names assigned to the programmes.

If you do not accept the locations and/or the programme names of programmes, you can change them in Programme menu.

Source Menu

You can switch your TV to AV modes by pressing directly to "**AV**" button or by selecting in source menu from the main menu.

While in AV mode, you can also switch your TV to TV or other AV modes by selecting in source menu from the main menu.



In main menu, firstly use "△" or "▽" button then use "◁" / "▷" or "**OK**" button to enter Source menu. In source menu, move the cursor by "△" or "▽" button and then press "**OK**" button or "◁" or "▷" buttons when the cursor is on the required item. The selected mode comes automatically on the screen.

Other Features

TV Status

Programme Number, **Programme Name** (or **AV**), (they are displayed on the upper left of the screen) and **Sleep Timer** (shows the time left on the upper right screen if enabled). The **sound indicator** and **picture mode** are displayed with them too. They are displayed after programme change during 3 seconds.

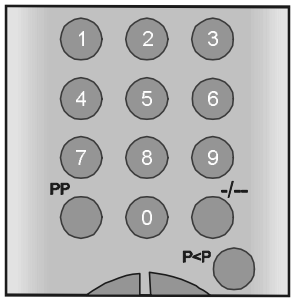
P 01 Programme Number

PR 01 Programme Name (4 characters)

These OSD's are displayed when a new programme is entered by digit button or by pressing "**P<P**", **"-P/CH", "P/CH+"**, "TV", "EXT" or "i" button.

Programme Swap (P<P)

This button is used to reenter to the preceding entered programme again. Pressing "**P<P**" consecutively allows to swap into two last entered programmes.



Double-digit (- / - -)

This OSD is displayed when the "Double-Digit" button pressed in place of the programme number indicator.

P - -

After then, in order to enter a programme it must be pressed to two digit consecutively. When it is late to press any digit button this function will be ignored and the display will be erased. In the same way it must not be late to press any digit button after entering the first digit. The limit of the delay time is 3 seconds.

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Personal Preferences (PP)

All the preset values will be restored, when pressing "**PP**".

PP

Sound Indicator

The alternatives of the indicator are Mono, Stereo, Dual I and Dual II. This indicator is displayed under the programme number indicator on the screen. "**I-II**" button is used to select Mono or Stereo, or Dual I or Dual II.

MONO

In Mono broadcast or in forced-mono (for stereo broadcast).

STEREO

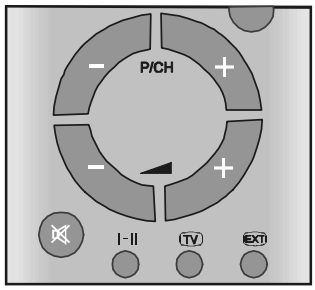
In Stereo broadcast.

DUAL I

If dual broadcast detected. Dual I is selected in default and also can be selected after Dual II by Remote Control.

DUAL II

If Dual II selected by Remote Control.



Picture Mode

Picture mode OSD is displayed when "⊕" button is pressed. Picture mode can be changed to **Auto, 4:3, 16:9, Cinema, Subtitle, Zoom** or **Panorama** by pressing "⊕" button.

Sleep Timer Indicator

It is displayed on the upper right of the screen when a new programme is entered by digit button or by pressing "**P<P**", **"-P/CH", "P/CH+"**, "TV", "EXT" or "i" button. If sleep timer is activated it is displayed with the TV status and erased with it after 3 seconds.

In last minute, sleep timer indicator is displayed on the upper right of screen and stays there until the TV goes automatically to stand-by.

0:15

Mute Indicator

It is placed in the upper middle of the screen when enabled, and it stays there until it is disabled.

To cancel mute, there is two alternative; the first one is pressing to "🔇" button, this volume is set to the preceding value, and the second one is increasing the volume level, thus it starts at the minimum level to increase. By decreasing the volume level in mute state, mute will not be ignored, only the volume level will decrease. If mute canceled after decreasing the volume level, the volume will valid with the decreased level.

No-Signal Detection (TV)

If no valid signal detected, it takes 5 minutes for the switching to the Stand-By mode unless any signal detected or no any Remote

Control command is accessed.

After a Remote Control command (if No-Signal Timer is active) the timer stops and if no signal detected again the timer is initialized to 5 minutes and starts 3 seconds later again to count down.

It is not valid in AV mode.

4:31

No-Signal Detection (PC)

If no valid signal detected for 5 minutes system goes to Stand-By mode. To switch on the system press "⏻" button.

No input signal detected

As the last status feature, system starts from TV or PC, whichever was the status before stand-by or switch-off. Note that SCART inputs have the precedence on both TV and PC.

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Volume Bar

It is displayed in the lower middle of the screen. When a volume command is received (pressing **"◢ +"** or **"◢ -"** by Remote Control or Control panel at the top of the TV) and no menu is active, it stays on the screen for 3 seconds, after the last volume command or until another command is received in between.

AV Modes

By pressing the "EXT" button you can switch your TV to AV modes (except being in Teletext). Pressing this button will consecutively switch the TV in one of the optional AV modes: AV-1, AV-2, AV-3, S-VIDEO, PC.

In order to quit the AV mode press the "TV", digit buttons or **"-P/CH"** or **"P/CH+"** .

Signal Out Of Range

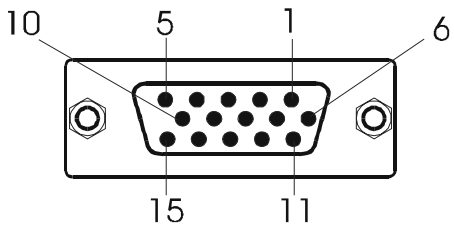
When the PC input signal is not supported by LCD-TFT TV, a message is displayed like "Signal out of range" and screen is blanked.

PC MODE

Installation

- Power off both Computer and Display before making any connections.
- The monitor comes with a 15-pin PC cable. Connect end of the signal cable to the 15-pin connector on the rear of the Computer.

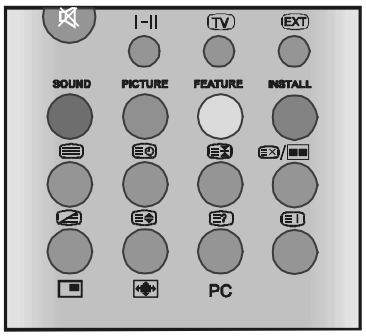
15 Pin Mini D-Sub Connector



- Tighten the screws of the Display cable until the connectors are fastened securely (finger-tighten only).
- If you are using Windows operating system running on a PC with a Microsoft Plug & Play compatible video card, your system will select the appropriate timing for your monitor.

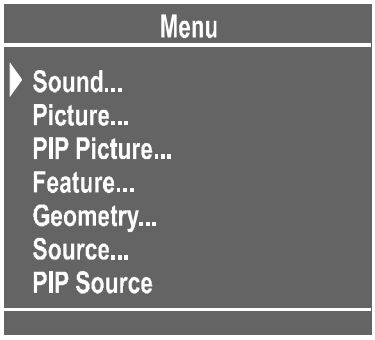
Switching from TV to PC

Press "**PC**" button to switch directly PC mode.



Main Menu in PC mode:

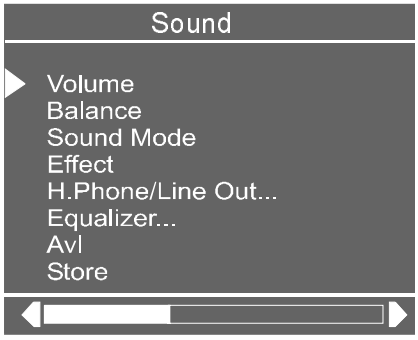
Enter the main menu by pressing the "**M**" button on the remote control.



Sound Menu

In the main menu select "Sound" using "△" or "▽" button then enter the Sound menu pressing "◁", "▷" or "**OK**" buttons.

The items in this menu are described at Sound menu starting page 11.



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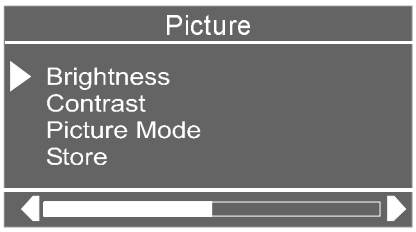
Picture Menu

In the Main menu, select "**Picture**" using "△" or "▽" button, then enter the Picture menu pressing "◁", "▷" or "**OK**" buttons.

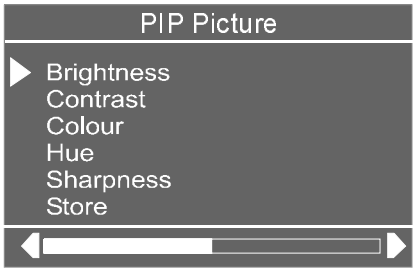
All adjustment in this menu except Picture Mode is identical to adjustment defined TV picture menu starting on page 13. Picture Mode can be set to **Auto, 4:3** and **16:9** in PC mode.



PIP Picture

In the Main menu, select "**PIP Picture**" using "△" or "▽" button, then enter the PIP Picture menu pressing "◁", "▷" or "**OK**" buttons.

This menu is displayed when PIP is displayed on the screen and otherwise "PIP No Signal" message will be displayed at the bottom of menu.



PIP picture is displayed on the screen with "▣" button. By pressing "**OK**" button, PIP window is selected and border of the PIP window becomes green. PIP position is changed by "◁" / "▷" button. There are six different PIP positions. PIP size is decreased by "▽" button and increased by "△" button. Three different PIP size are available.

Programme in the PIP window is increased / decreased by **"P/CH+"** / **"-P/CH"** or digit buttons. AV mode is also available in PIP window. PIP window is removed from the screen by "▣" button.

PC and Picture

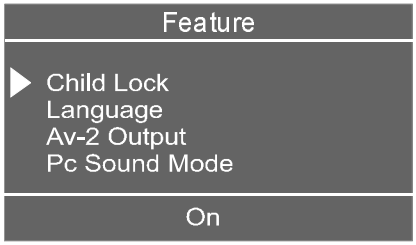
PC and Picture layout is displayed on the screen with "▬" button. The screen is divided into two parts at this layout. By pressing "**OK**" button, one of the windows is selected and border of the selected window becomes green. PC and picture are replaced with each other by pressing "▬" button.

To remove PC and Picture layout from the screen, press "TV" button.

Feature Menu:

In the main menu select "Feature" using "△" or "▽" button then enter the Feature menu pressing "◁", "▷" or "**OK**" buttons.

The items in this menu are described at Feature menu starting page 15.

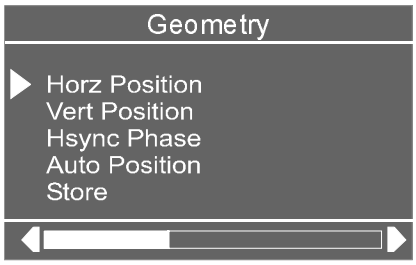


PC SOUND MODE:

This item selects the sound source for PC mode. But when the PIP is displayed and highlighted in green border, sound switches to whatever is displayed in the PIP. Whenever you close the PIP or make the PIP border blue again by disselecting the PIP, sound switches back to PC Sound Mode.

Geometry Menu:

In the Main menu, select "**Geometry**" using "△" or "▽" button, then enter the Geometry menu pressing "◁", "▷" or "**OK**" buttons.



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Adjust the required horizontal or vertical position or Hsync Phase by "◁", "▷" buttons.

You can make position adjustment directly by Auto position.

Select Auto position by "△" or "▽" buttons and press "◁" or "▷" button.

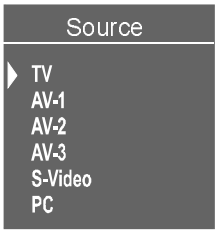
"Wait" is displayed at the bottom of the menu. After a few seconds screen geometry is adjusted automatically.

Warning: Auto position adjustment recommended to be done with the full screen image for the proper adjustment.

To store this menu setting select "Store" by "△" or "▽" buttons and then press "**OK**" button, "Stored" will be displayed for few seconds at the bottom of menu.

Source Menu:

In the Main menu, select "**Source**" using "△" or "▽" button, then enter the Source menu pressing "◁", "▷" or "**OK**" buttons.

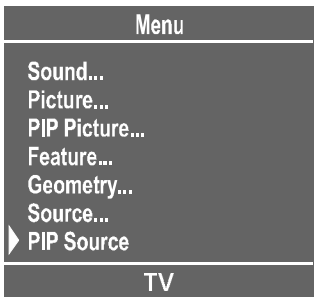


Select the available sources of TV, AV-1, AV-2, AV-3, S-Video or PC by pressing "◁", "▷" or "**OK**" buttons.

PIP Source Menu:

This menu is available when the PIP displayed.

In the Main menu, select "**PIP Source**" using "△" or "▽" button, then select the any available source of TV, AV-1, AV-2, AV-3 or S-Video pressing "◁", "▷" then "**OK**" buttons.



Teletext

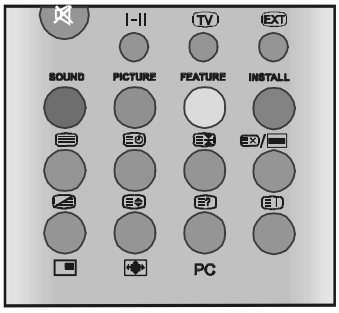
Teletext is an information system that displays text on your TV screen. Using the Teletext information system you can view a page of information on a subject that is available in the list of contents (index).

On screen display is not available in text mode.

Contrast, brightness or colour control is not available, but volume control is available in text mode.

To operate Teletext

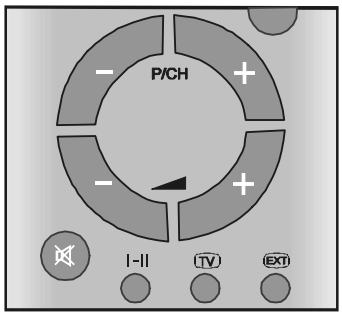
- Select a TV station on which Teletext is being transmitted.
- Press (TELETEXT) " " button. Usually the list of contents (index) is displayed on the screen.



To select a page of Teletext

- Press the appropriate digit buttons for the required Teletext page number.

The selected page number is displayed at the top left corner of the screen. The Teletext page counter searches until the selected page number is located, so that the desired page is displayed on the screen.



- Press "**P/CH +**" button to move the Teletext screen forward one page at a time.

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• Press "**- P/CH**" button to move the Teletext screen backward one page at a time.

To Select Index Page

• To select the page number of the index (generally page 100), press " " button.

To Select Teletext with a TV Programme

• Press " " button. The text is now superimposed over the programme on the screen.

• Press " " button again to return to the Teletext page.

To Select Double Height Text

• Press " " button for the top half of the information page to be displayed in double height text.

• Press " " button again for the bottom half of the information page to be displayed in double height text.

• Press " " button once more for the full page of normal height text.

To Reveal "concealed" Information

• Pressing " " button once will reveal answers on a quiz or games page.

• Pressing " " button again will conceal the revealed answers.

To Stop Automatic Page Change

The teletext page you have selected may contain more information than what is on the screen; the rest of the information will be displayed after a period of time.

• Press " " button to stop the automatic page change.

• Press " " button again to allow the next page to be displayed.

To Select a Subcode Page

Subcode pages are subsections of long Teletext pages that can only be displayed on the screen one section at a time.

• Select the required Teletext page.

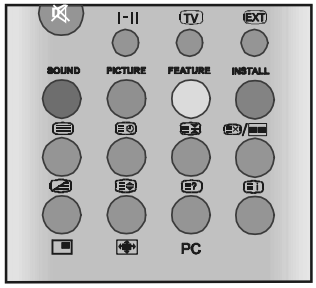
• Press " " button.

• Select the required subcode page number by pressing four digit buttons (e.g. 0001).

• If the selected subcode page is not displayed in a short time, press " " button. TV programme will be displayed on the screen.

• Teletext page number will be displayed on the upper left corner of the screen when the selected page is found.

• Press " " button to display the selected Teletext page.



Fastext

Your CTV supports the 7 page Teletext system. When the page number of any of the 7 pages in memory is entered, the system will not search for the requested page; instead it will display the page automatically.

• Press "**P/CH +**" button to move the Teletext screen forward one page at a time.

• Press "**- P/CH**" button to move the Teletext screen backward one page at a time.

For Fastext

The subject-heading for the information may have a particular colour.

• Press an appropriate **Red**, **Green**, **Yellow** or **Blue** button in order to reach the relevant page quickly.

For TOP text

TOP text mode of operation will be activated automatically according to the transmission.

• If TOP text transmission is present, colour coded buttons will appear in status row.

• If TOP text transmission is not present, status row will not appear.

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The subject-heading for information may be located in coloured box.

In TOP mode the "**P/CH +**" or "**- P/CH**" commands will request the next or previous page respectively. If TOP text transmission is not available, in case of operation of these commands, wraparound occurs. For example page 100 appears to be one greater than page 199.

To exit Teletext

- Press "**TV**" or "" button. The screen will switch to TV mode.

To Display the Time

- While watching a TV programme with Teletext transmission press " " button. The current time information, captured from Teletext will be displayed at the upper right of the screen until the " ", "EXT" or "**M**" button pressed.
- If the programme being watched does not have Teletext transmission, no information will be displayed.

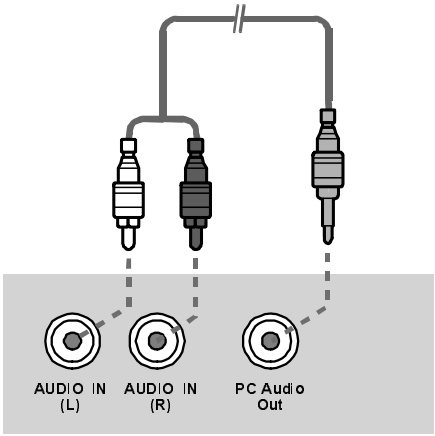
Peripheral Equipment Connections

There is a wide range of audio and video equipment that can be connected to your TV.

Connection diagrams at the and of this section show you where the different equipment should be connected at the back side of the TV.

PC Sound Connection

- Connect the PC Audio output to the TFT **PC Audio In** socket with stereo connection cable.
- In the main menu select "Feature" using "△" or "▽" button then enter the Feature menu pressing "◁", "▷" or "**OK**" button. Come on "PC Sound Mode" using "△" or "▽" button and select **PC** from the TV, AV-1, AV-2, AV-3 and PC options using "◁", "▷" or "**OK**" button.
- **Source** also should be selected as **PC** in the main menu.



Via the Euroconnector

Your TV set has 2 Euroconnector sockets. If you want to connect peripherals (e.g. video, decoder, etc.) which have Euroconnectors, to your TV, use **SCART** input.

If an external device is connected via Euroconnector sockets TV is switched to AV mode automatically. In this case if both sockets are connected SCART-1 has the precedence.

In AV mode if you press the "i" button the TV status OSD is displayed on the screen.

Via Ant Input

If you want to connect to your TV, peripherals like video recorders or decoders, but the device you want to connect does not have Euroconnector, you should connect it to the ANT input of your TV set.

If the VCR is connected via antenna input it is suggested to use the Programme 0.

Decoder

Cable TV offers you a wide choice of programmes. Most of them are free, others are to be paid for by the viewer. This means that you will need to subscribe to the broadcasting organisation whose programmes you wish to receive. This organisation will supply you a corresponding decoder unit to allow the programmes to be unscrambled.

For further information ask your dealer. See also the booklet supplied with your decoder.

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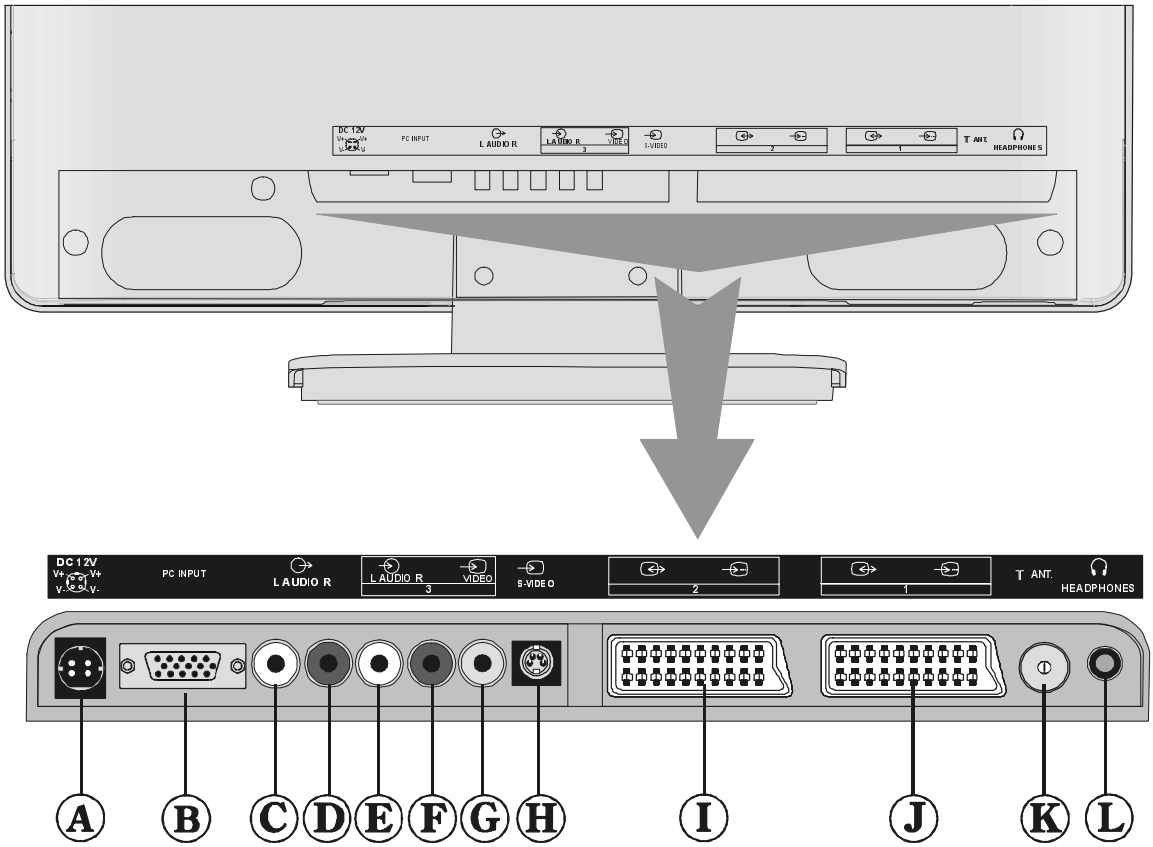
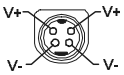
Peripheral Equipment Connections



Ⓐ DC 12 V



Ⓑ PC INPUT

Ⓒ LINE OUT (L)

Ⓓ LINE OUT (R)

Ⓔ AUDIO INPUT (L)

Ⓕ AUDIO INPUT (R) — (AV-3)

Ⓖ VIDEO INPUT

Ⓗ S-VIDEO INPUT

Ⓘ SCART SOCKET 1 (AV-1)

Ⓙ SCART SOCKET 2 (AV-2)

Ⓚ ANTENNA

Ⓛ HEADPHONE

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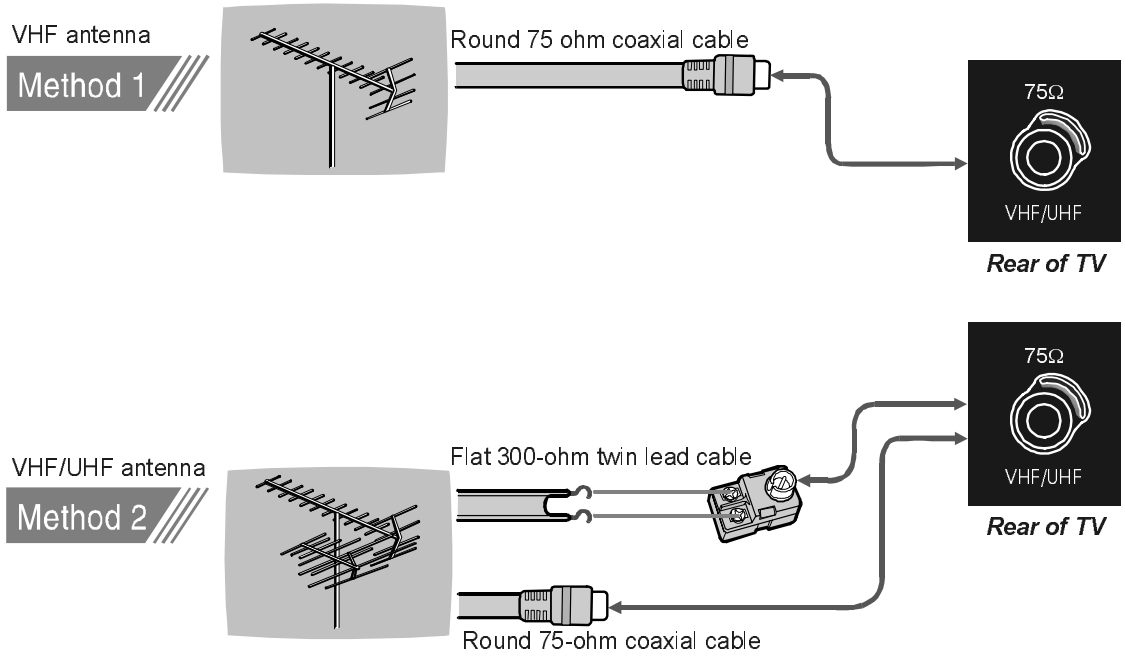
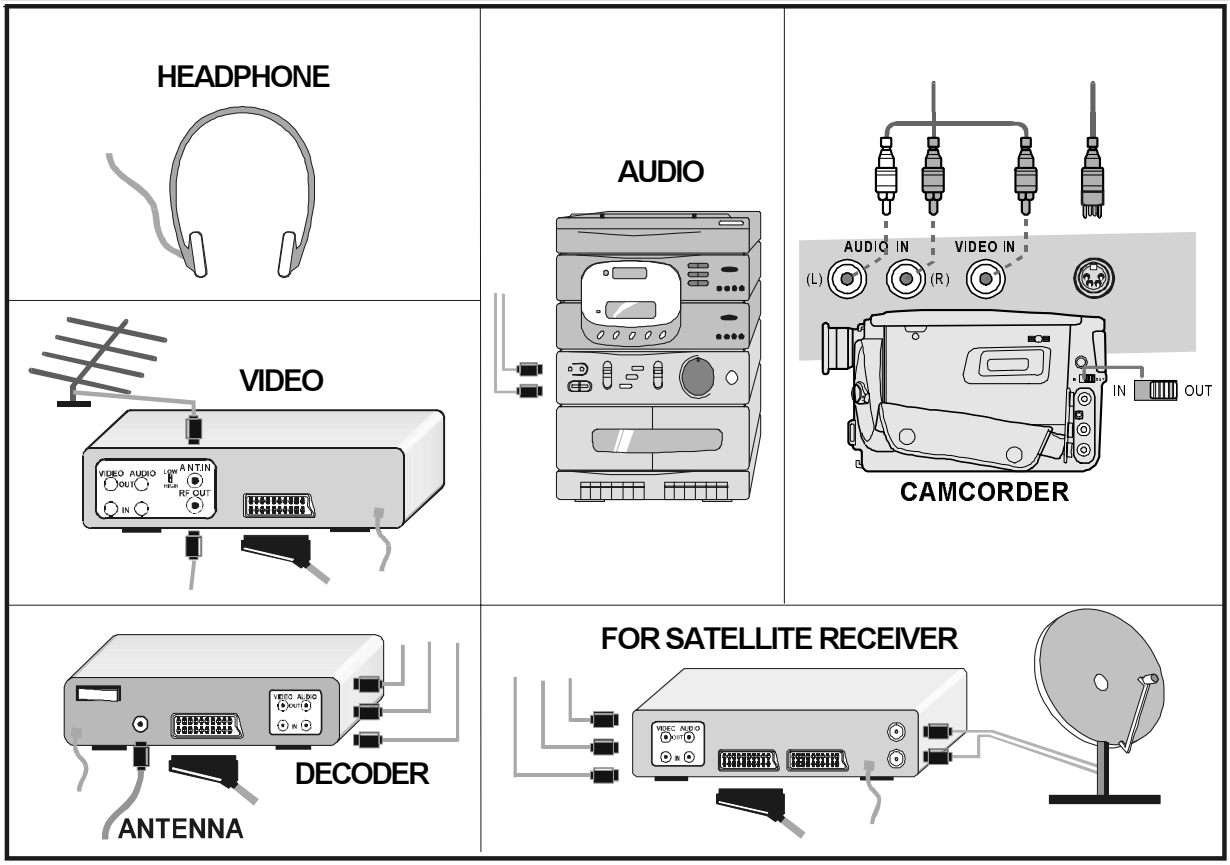
Antenna Connections

Outdoor Antenna Connections



Peripheral Equipment Connections



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Connect a decoder with an aerial socket to the TV

• Connect the aerial cable.

Connect a decoder without an aerial socket to the TV

• Connect the decoder to your TV with a eurocable (RCA Jack Cable) to **EXTERNAL** (RCA Jack). When your decoder has a Euroconnector / RCA Jack you can obtain better picture quality if you connect a eurocable (RCA Jack Cable) to **EXTERNAL** (RCA Jack).

TV and Video Recorder

• Connect the aerial cables.

Better picture quality can be obtained if you also connect a eurocable to **EXTERNAL socket**.

Playback NTSC

Connect NTSC VCR player to one of two Euroconnectors at the back of the TV.

Then, press "EXT" button to select AV-1 or AV-2.

Search for and store the test signal of the video recorder

• Unplug the aerial cable from the aerial socket "**ANT**" of your video recorder.

• Switch on your TV and put the video recorder on the test signal. (See the handbook for your video recorder.)

• Search for the test signal of your video recorder in the same way as you searched for and stored the TV signals. See Install, Search and Store TV channels. Store the test signal under programme number 0.

– Replace the aerial cable in the aerial socket "**ANT**" of your video recorder once you have stored the test signal.

Camera and Camcorder

To connect to (AV-3) input

Connect your camera or camcorder at the back side of your TV.

• Connect your equipment to the TV via **VIDEO** (yellow), **AUDIO R** (red) and **AUDIO L** (white) inputs. You should connect the jacks to the input in the same colour.

Connect the decoder to the video recorder

Some video recorders have a special euroconnector for decoder.

• Connect a eurocable to the euroconnector of your decoder and to the special euroconnector of your video recorder. See also the handbook of your video recorder.

• To connect your video recorder to the TV, see TV and Video Recorder section.

If you want to connect more equipment to your TV, consult your dealer.

Connecting Headphones

Use the stereo headphone socket on the back side of your TV, to connect headphones.

Connecting the PC

Connect PC monitor with 15-pin PC cable to the 15-pin connector on the rear of the computer. For detail installation procedure see **Installation** in PC mode.

To connect to S-Video input

Connect your camera or camcorder at the back side of your TV.

• Connect your equipment to the TV via S-Video input at the back side by using S-Video cables.

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PC INPUT TYPICAL DISPLAY MODES

The display has a maximum resolution of 1280 x 768, vertical sync. frequency range of 50-75 Hz and a horizontal sync. frequency range of 30-69 KHz.

The following table is an illustration of some of the typical video display modes.

Mode	Resolution		Frequency		Sync. Polarity	
	Horizontal	Vertical	Hor. (kHz)	Ver. (Hz)	Hor.	Ver.
1	640	400	31.5	70	-	+
2	640	480	31.5	60	-	-
3	640	480	37.9	72	-	-
4	640	480	37.5	75	-	-
5	720	400	31.5	70	-	+
6	800	600	35.2	56	+	+
7	800	600	37.9	60	+	+
8	800	600	48.1	72	+	+
9	800	600	46.9	75	+	+
10	1024	768	48.4	60	-	-
11	1024	768	56.5	70	+	+
12	1024	768	60.0	75	+	+
13	1280	720	44.8	60	-	+
14	1280	768	47.8	60	-	+

The native resolution of the TFT-LCD Panel is 1280 x 768. Therefore using Mode 14 is advised to get the best PC input display quality.

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Tips

Care of the Screen

Clean the screen with a slightly damp, soft cloth. Do not use abrasive solvents as they may damage the TV screen coating layer

Colors of image on screen are abnormal

For TV :

Have you selected the correct TV system? Is your TV set or house aerial located too close to the loudspeakers, non-earthed audio equipment or neon lights, etc. ?

Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the aerial.

Is the picture or Teletext unrecognisable? Check if you have entered the correct frequency.

The picture quality may degrade when two peripherals are connected to the TV at the same time. In such a case, disconnect one of the peripherals.

For Monitor :

- Check that Video (Signal) Cable from the Display has been securely and correctly connected to the 15-pin Video Connector on the rear panel of the Computer.
- If you have used an adaptor to convert the 15-pin Video (Signal) Cable Connector from the Display to fit the connector on the rear of the Computer, check the pin assignment of the Display.

No Image on Display Screen

For TV :

Is the aerial connected properly? Are the plugs connected tightly to the aerial socket? Is the aerial cable damaged? Are suitable plugs used to connect the aerial? If you are in doubt, consult your dealer.

No Image means that your TV is not receiving any transmission. Have you pressed the correct buttons on the remote control? Try once more.

For Monitor :

- Check that power cord of the Display has been connected securely into wall outlet or grounded extension cable or strip.
- Display is equipped with electronic power switch, it will remain power-off in case of any power failure. It is necessary to push power switch again to power-on the display. Check that LED on front of display is green.
- Check that Video (Signal) Cable from the Display has been securely and correctly connected to the 15-pin Video Connector on the rear panel of the Computer.
- Check that Video Card is firmly seated in card slot of Computer motherboard.
- Check that the Brightness and/or the Contrast adjustments of the Display have not been turned down to minimum levels.

Sound

You can not hear any sound. Did you perhaps interrupt the sound, pressing "🔇" button? Are external speakers connected to the TV?

Sound is coming from only one of the speakers. Is the balance set to one direction extreme? See **Sound** menu.

Remote Control

Your TV no longer responds to the remote control. Press the "TV" button on the remote control once more. Perhaps the batteries are exhausted. If so you can still use the buttons on the control panel at the top of your TV.

Have you selected the wrong menu? Press "TV" button to return to TV mode or press "**M**" button to return to the previous menu.

No solution

Switch your TV set off and on. If this does not work, switch off, remove the mains plug and call the service personnel; never attempt to repair it yourself.

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Specifications

TV BROADCASTING

PAL I/I'

RECEIVING CHANNELS

VHF (BAND I/III)
UHF (BAND U)
HYPERBAND
CABLE TV (S1-S20/ S21-S41)

Input Signal

Video: Analog 0.7 Vp-p 75 ohm positive

Sync: TTL Level positive or negative, Separate sync.

Horizontal Timing 30 - 69 KHz

Vertical Timing 50 - 75 Hz

Dot Rate

78.75 MHz max.

Video Cable/Input Connector

15 pin mini D cable

PANEL

Size : 17.1" (43 cm) diagonal

Visible Picture Size

371.5 mm horizontal x 223.5 mm Vertical

Displayable Resolution

1280 x 768 maximum
Non-interlaced

NUMBER OF PRESET CHANNELS 100

CHANNEL INDICATOR

On Screen Display

RF AERIAL INPUT

75 Ohm (unbalanced)

OPERATING VOLTAGE

For adaptor: 230 V AC, 50 Hz.
For TV : 12 V DC

AUDIO

German + Nicam Stereo

AUDIO OUTPUT POWER

2 x 3 $W_{RMS.}$ (%10 THD)

POWER CONSUMPTION (W) (max.)

56

STAND-BY (⏻) POWER

<3W

DIMENSIONS (WxHxD)

W	445 mm.
H	365 mm.
D	175 mm. with stand 65 mm. without stand
Weight	4.8 Kg.

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